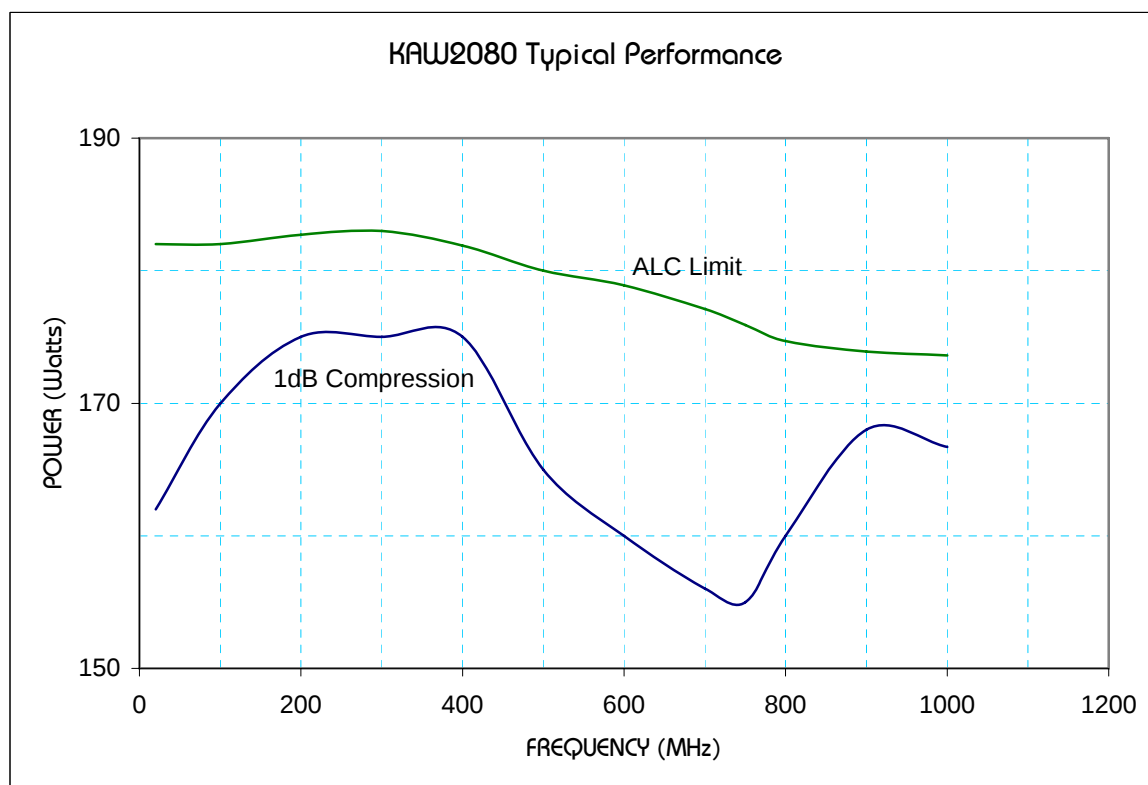


MODEL KAW2080
150 WATTS CW
20 MHz - 1000 MHz

The Model KAW2080 is a Class A wideband RF power amplifier delivering in excess of 150 Watts CW power into a 50-Ohm load over the frequency range of 20 MHz to 1000 MHz. Power gain is a minimum of 52 dB. GPIB control requires the optional IEEE488.2/RS232 Interface Controller Module.

The system features forward and reflected power indication on a front panel-mounted, analog meter; Automatic Level Control (ALC); RF gain control; overdrive protection; full VSWR protection; input blanking, and over-temperature protection. On the basic model these features, plus remote power on/off control, are accessible for hard-wire remote operation through a 25-pin, D-subminiature connector. For a detailed description of these features refer to "SPECIAL FEATURES – KAA & KAW-SERIES SINGLE BAND RF POWER AMPLIFIERS".

The Model KAW2080 is a 19-inch rack-mount unit, 8¾ inches high and 28 inches deep. Construction is completely modular; all subassemblies are readily removable. Forced-air cooling is by a highly reliable, tube-axial fan mounted on the rear panel. The amplifier operates from 187-265 V_{AC}, 47-63 Hz line. The system may be placed in 'stand-by' mode with the BLANKING switch, which greatly reduces energy consumption and heat generation.



SPECIFICATIONS

Model KAW2080

RATED POWER OUTPUT	150 Watts
INPUT FOR RATED OUTPUT	1.0 mW maximum
FLATNESS	± 2.5 dB maximum unleveled, ± 0.6 dB leveled
FREQUENCY RESPONSE.....	20 MHz - 1000 MHz instantaneously
GAIN	52 dB minimum
GAIN ADJUSTMENT RANGE.....	20 dB typical
INPUT IMPEDANCE.....	50 Ohm nominal
OUTPUT IMPEDANCE	50 Ohm nominal
MISMATCH TOLERANCE	infinite
PROTECTION	VSWR, over-temperature, overdrive
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION	-43 dBc average, -20 dBc maximum
SPURIOUS OUTPUTS.....	-70 dBc maximum
FRONT PANEL METER	0 - 150 Watt forward power, top scale % limit SET point reflected power, bottom scale
CONTROLS.....	[AC LINE]ON/OFF, [RF CTRL]ON/OFF (blanking) [METER]FWD/REFL, [ALC]FAST/SLOW (Autom. Level Control) [VSWR]RESET MAN/AUTO, ALC, RF GAIN
INDICATORS	SYSTEM, BLANKING, [METER]MODE, [ALC] MODE, VSWR, TEMP, REMOTE ACTIVE
REMOTE INTERFACE (optional).....	IEEE-488.2 & RS-232
RF CONNECTORS	N female
REMOTE CONTROL.....	IEEE488.2: 24-pin female, RS-232: 25- pin D-Subminiature female
REMOTE INTERLOCK	BNC female
OPERATING TEMPERATURE	-10 to 40 °C
COOLING.....	Forced air (self contained fans)
PRIMARY POWER	187 - 265 V _a , 47 - 63Hz, single-phase, 1.6 kVA maximum
SIZE (W x H x D).....	48.3 x 22.2 x 71.1 cm, 19 x 8¾ x 28 in.
WEIGHT (approx.).....	45 kg, 100 lb.

MODEL CONFIGURATIONS

MODEL NUMBER	OPTION
KAW2080	Standard
KAW2080M1	IEEE488.2/RS232

DOC # 7-98-835-001
REV B